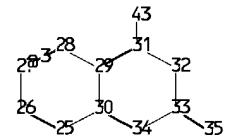
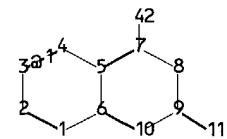
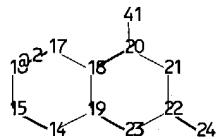
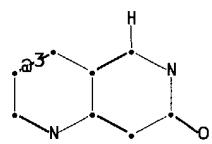
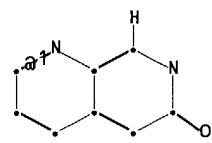
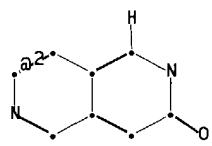


L Number	Hits	Search Text	DB	Time stamp
1	752	(546/141).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/19 11:37
2	1939	((514/300) or (514/309) or (546/122) or (546/123)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/19 11:46
3	2427	((546/141).CCLS.) or (((514/300) or (514/309) or (546/122) or (546/123)).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/19 11:46

C:\Program Files\Common Files\System\Mapi\1033\NT



```

chain nodes :
 11 24 35 40 41 42 43
ring nodes :
 1 2 3 4 5 6 7 8 9 10 14 15 16 17 18 19 20 21 22 23 25 26 27 28 29
 30 31 32 33 34
ring/chain nodes :
 13
chain bonds :
 7-42 9-11 13-40 20-41 22-24 31-43 33-35
ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 14-15 14-19 15-16 16-17 17-18
 18-19 18-20 19-23 20-21 21-22 22-23 25-26 25-30 26-27 27-28 28-29 29-30 29-31
 30-34 31-32 32-33 33-34
exact/norm bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-40 14-15 14-19 15-16
 16-17 17-18 18-19 18-20 19-23 20-21 21-22 22-23 22-24 25-26 25-30 26-27 27-28
 28-29 29-30 29-31 30-34 31-32 32-33 33-34 33-35
exact bonds :
 7-42 20-41 31-43
isolated ring systems :
 containing 1 : 14 : 25 :

```

G1 : [*1], [*2], [*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom
23:Atom 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom
33:Atom 34:Atom 35:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS

10/634,180 (Group II)

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

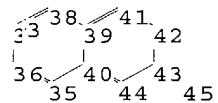
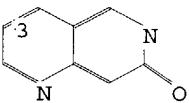
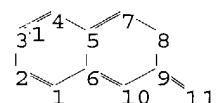
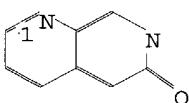
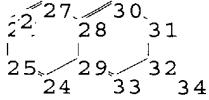
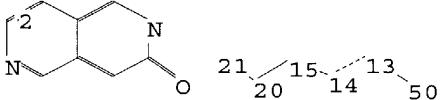
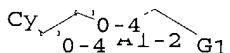
=> screen 1839

L1 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 SCREEN CREATED

=> Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (GrII).str



chain nodes :

11 13 14 15 20 21 34 45 50

ring nodes :

1 2 3 4 5 6 7 8 9 10 24 25 26 27 28 29 30 31 32 33 35 36 37

38 39 40 41 42 43 44

chain bonds :

9-11 13-14 13-50 14-15 15-20 20-21 32-34 43-45

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 24-25 24-29 25-26 26-27

27-28 28-29 28-30 29-33

39-40 39-41 40-44 41-42 42-43 43-44

10/634,180 (Group II)

exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 13-50 14-15
20-21 24-25 24-29 25-26 26-27 27-28 28-29 28-30 29-33 30-31 31-32 32-33
32-34 35-36 35-40 36-37 37-38 38-39 39-40 39-41 40-44 41-42 42-43 43-44
43-45
exact bonds :
15-20
isolated ring systems :
containing 1 : 24 : 35 :

G1:[*1], [*2], [*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 20:CLASS 21:Atom 24:Atom 25:Atom
26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:CLASS
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom
44:Atom 45:CLASS 50:CLASS

L3 STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4 QUE L3 AND L1 NOT L2

=> d 14

L4 HAS NO ANSWERS

L1 SCR 1839

L2 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L4 QUE L3 AND L1 NOT L2

=> s 14 sss sam

SAMPLE SEARCH INITIATED 13:13:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 7875 TO ITERATE

12.7% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 152183 TO 162817

PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L3 AND L1 NOT L2

=> s 14 sss ful

FULL SEARCH INITIATED 13:13:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 159266 TO ITERATE

10/634,180 (Group II)

100.0% PROCESSED 159266 ITERATIONS
SEARCH TIME: 00.00.05

0 ANSWERS

L6 0 SEA SSS FUL L3 AND L1 NOT L2

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

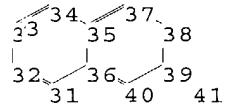
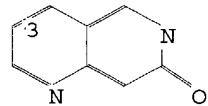
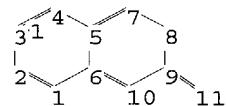
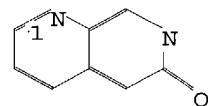
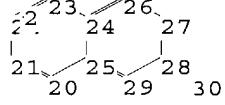
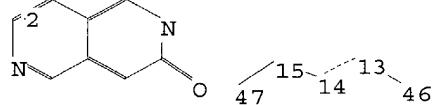
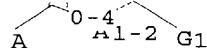
=> screen 1839

L7 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L8 SCREEN CREATED

=>
Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (GrIIa).str



chain nodes :
11 13 14 15 30 41 46
ring nodes :
1 2 3 4 5 6 7 8 9 10 20 21 22 23 24 25 26 27 28 29 31 32 33
34 35 36 37 38 39 40

10/634,180 (Group II)

```
ring/chain nodes :  
47  
chain bonds :  
9-11 13-14 13-46 14-15 15-47 28-30 39-41  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 20-21 20-25 21-22 22-23  
23-24 24-25 24-26 25-29 26-27 27-28 28-29 31-32 31-36 32-33 33-34 34-35  
35-36 35-37 36-40 37-38 38-39 39-40  
exact/norm bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 13-46 14-15  
15-47 20-21 20-25 21-22 22-23 23-24 24-25 24-26 25-29 26-27 27-28 28-29  
28-30 31-32 31-36 32-33 33-34 34-35 35-36 35-37 36-40 37-38 38-39 39-40  
39-41  
isolated ring systems :  
containing 1 : 20 : 31 :
```

G1:[*1], [*2], [*3]

```
Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 13:CLASS 14:CLASS 15:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom  
25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:CLASS 31:Atom 32:Atom 33:Atom  
34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:CLASS 46:CLASS  
47:CLASS
```

L9 STRUCTURE UPLOADED

=> que L9 AND L7 NOT L8

L10 QUE L9 AND L7 NOT L8

=> d 110

L10 HAS NO ANSWERS

L7 SCR 1839

L8 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L9 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L10 QUE L9 AND L7 NOT L8

=> s 110 sss sam

SAMPLE SEARCH INITIATED 13:14:59 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 7875 TO ITERATE

12.7% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 152183 TO 162817
PROJECTED ANSWERS: 0 TO 0

10/634,180 (Group II)

L11 0 SEA SSS SAM L9 AND L7 NOT L8

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1839

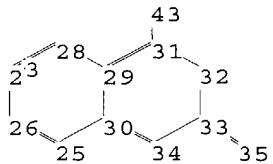
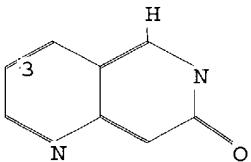
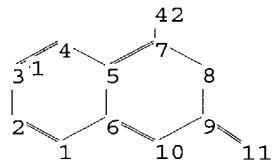
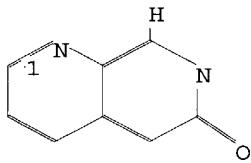
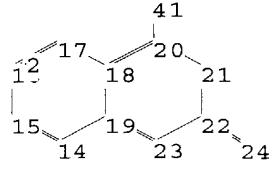
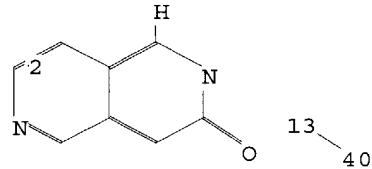
L12 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L13 SCREEN CREATED

=>
Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (GrIIb).str

A → G1



chain nodes :
11 24 35 40 41 42 43
ring nodes :
1 2 3 4 5 6 7 8 9 10 14 15 16 17 18 19 20 21 22 23 25 26 27
28 29 30 31 32 33 34

10/634,180 (Group II)

```
ring/chain nodes :  
13  
chain bonds :  
7-42 9-11 13-40 20-41 22-24 31-43 33-35  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 14-15 14-19 15-16 16-17  
17-18 18-19 18-20 19-23 20-21 21-22 22-23 25-26 25-30 26-27 27-28 28-29  
29-30 29-31 30-34 31-32 32-33 33-34  
exact/norm bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-40 14-15 14-19  
15-16 16-17 17-18 18-19 18-20 19-23 20-21 21-22 22-23 22-24 25-26 25-30  
26-27 27-28 28-29 29-30 29-31 30-34 31-32 32-33 33-34 33-35  
exact bonds :  
7-42 20-41 31-43  
isolated ring systems :  
containing 1 : 14 : 25 :
```

G1:[*1], [*2], [*3]

```
Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom  
21:Atom 22:Atom 23:Atom 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom  
30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:CLASS 40:CLASS 41:CLASS 42:CLASS  
43:CLASS
```

L14 STRUCTURE UPLOADED

=> que L14 AND L12 NOT L13

L15 QUE L14 AND L12 NOT L13

=> d 115

L15 HAS NO ANSWERS

L12 SCR 1839

L13 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L14 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L15 QUE L14 AND L12 NOT L13

=> s 115 sss sam

SAMPLE SEARCH INITIATED 13:17:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9618 TO ITERATE

10.4% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 186485 TO 198235
PROJECTED ANSWERS: 0 TO 0

10/634,180 (Group II)

L16 0 SEA SSS SAM L14 AND L12 NOT L13

=> s l15 sss ful
FULL SEARCH INITIATED 13:18:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 193946 TO ITERATE

100.0% PROCESSED 193946 ITERATIONS
SEARCH TIME: 00.00.04

7 ANSWERS

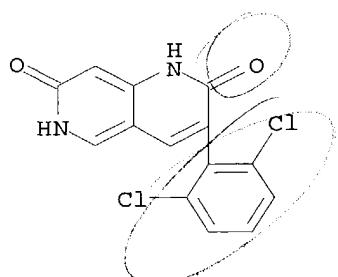
L17 7 SEA SSS FUL L14 AND L12 NOT L13

=> => s l17
L18 4 L17

=> d l18 1-4 bib,ab,hitstr

L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:473076 CAPLUS
 DN 133:252336
 TI Synthesis and Structure-Activity Relationships of 7-Substituted
 3-(2,6-Dichlorophenyl)-1,6-naphthyridin-2(1H)-ones as Selective Inhibitors
 of pp60c-src
 AU Thompson, Andrew M.; Rewcastle, Gordon W.; Boushelle, Stacey L.; Hartl,
 Brian G.; Kraker, Alan J.; Lu, Gina H.; Batley, Brian L.; Panek, Robert
 L.; Showalter, H. D. Hollis; Denny, William A.
 CS Auckland Cancer Society Research Centre Faculty of Medical and Health
 Sciences, University of Auckland, Auckland, 92019, N. Z.
 SO Journal of Medicinal Chemistry (2000), 43(16), 3134-3147
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB 7-Substituted 3-(2,6-dichlorophenyl)-1,6-naphthyridin-2(1H)-ones are
 potent inhibitors of protein tyrosine kinases, with some selectivity for
 c-Src. The compds. were prepared by condensing 4,6-diaminonicotinaldehyde
 with 2,6-dichlorophenylacetonitrile and selectively converting the 2- and
 7-amino groups of the product to hydroxy and fluoro groups, resp., by
 prolonged diazotization in 50% aqueous fluoroboric acid. N-Methylation,
 followed by treatment with aliphatic diamines, aromatic amines, or their
 derived
 lithium anions, gave the desired compds. Selected isomeric
 1,8-naphthyridin-2(1H)-ones were also prepared in order to evaluate the
 relative contributions of both ring A aza atoms of the related
 pyrido[2,3-d]pyrimidin-7(8H)-ones to the inhibitory activity. The compds.
 were evaluated for their ability to prevent phosphorylation of a model
 substrate by c-Src, FGF-1 receptor, and PDGF- β receptor enzymes.
 Overall, there was a high degree of correlation of the activities against
 the different kinases, with c-Src being generally the most sensitive to
 structural changes. 1,6-Naphthyridin-2(1H)-one analogs bearing basic
 aliphatic side chains [7-NH(CH₂)_nR, 7-NHC₆H₄O(CH₂)_nR, or
 7-NHC₆H₄N(CH₂)₄NMe] were the most potent against c-Src (IC₅₀s of 10-80
 nM), showing good selectivity with respect to PDGFR (10-300-fold) but less
 with respect to FGFR. The 1,6-naphthyridin-2(1H)-ones showed broadly
 similar activity to the analogous pyrido[2,3-d]pyrimidin-7(8H)-ones,
 whereas the 1,8-naphthyridin-2(1H)-ones were at least 103-fold less
 potent. These results, indicating that the 3-aza atom in the
 pyrido[2,3-d]pyrimidin-7(8H)-ones is mandatory, whereas the 1-aza atom is
 not, support the published binding model for these compds. to c-Src (J.
 Med. Chemical 1998, 41, 1752), where the 3-aza and 2-NH atoms form a
 bidentate H-bond donor-acceptor motif that interacts with Met341 and the
 1-aza atom is not involved in specific binding interactions.
 IT 220822-19-5P
 RL: BYP (Byproduct); PREP (Preparation)
 (preparation and structure-activity relationships of 7-substituted
 3-(2,6-Dichlorophenyl)-1,6-naphthyridin-2(1H)-ones as selective
 inhibitors of pp60c-src)
 RN 220822-19-5 CAPLUS
 CN 1,6-Naphthyridine-2,7(1H,6H)-dione, 3-(2,6-dichlorophenyl)- (9CI) (CA
 INDEX NAME)

10/634,180 (Group II)

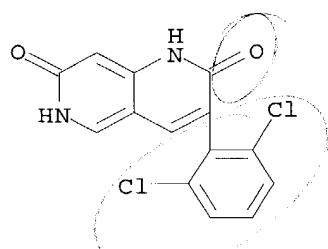


RE.CNT

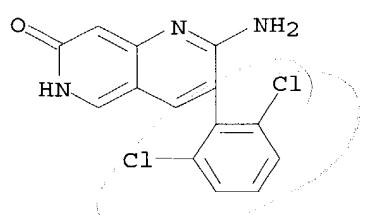
49

THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:386062 CAPLUS
 DN 133:252283
 TI Synthesis of 7-substituted 3-aryl-1,6-naphthyridin-2-amines and 7-substituted 3-aryl-1,6-naphthyridin-2(1H)-ones via diazotization of 3-aryl-1,6-naphthyridine-2,7-diamines
 AU Thompson, Andrew M.; Showalter, H. D. Hollis; Denny, William A.
 CS Faculty of Medical and Health Sciences, Auckland Cancer Society Research Centre, The University of Auckland, Auckland, N. Z.
 SO Perkin 1 (2000), (12), 1843-1852
 CODEN: PERKF9
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 133:252283
 AB The preparation of 3-aryl-7-halo-1,6-naphthyridin-2-amines and 3-aryl-7-halo-1,6-naphthyridin-2(1H)-ones from the diazotization of 3-aryl-1,6-naphthyridine-2,7-diamines is reported. The reactions were investigated in various solvents (concentrated HCl, 50% HBF4, 70% HF-pyridine, 20% and 90% H2SO4, dilute HCl, and neat TFA). By appropriate choice of solvent and other conditions, good yields of the target compds. could be obtained, although in some cases a variety of different side products was also produced. Subsequent displacement of the 7-halogen substituents with alkylamines provides a route to more complex 7-substituted 1,6-naphthyridine derivs. that are potential tyrosine kinase inhibitors.
 IT 220822-19-5P 293301-11-8P 293301-13-0P
 293301-15-2P 293301-28-7P 293304-90-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 220822-19-5 CAPLUS
 CN 1,6-Naphthyridine-2,7(1H,6H)-dione, 3-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



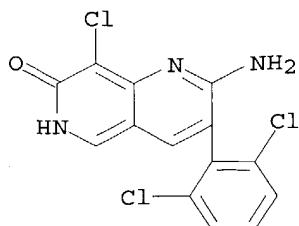
RN 293301-11-8 CAPLUS
 CN 1,6-Naphthyridin-7(6H)-one, 2-amino-3-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



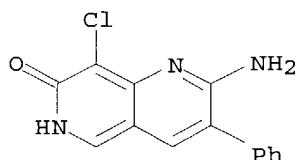
RN 293301-13-0 CAPLUS
 CN 1,6-Naphthyridin-7(6H)-one, 2-amino-8-chloro-3-(2,6-dichlorophenyl)- (9CI)

10/634,180 (Group II)

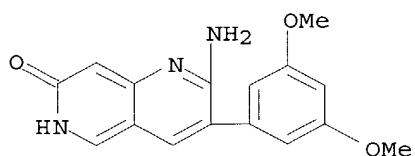
(CA INDEX NAME)



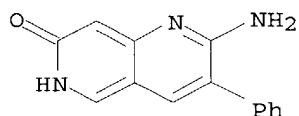
RN 293301-15-2 CAPLUS
CN 1,6-Naphthyridin-7(6H)-one, 2-amino-8-chloro-3-phenyl- (9CI) (CA INDEX NAME)



RN 293301-28-7 CAPLUS
CN 1,6-Naphthyridin-7(6H)-one, 2-amino-3-(3,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 293304-90-2 CAPLUS
CN 1,6-Naphthyridin-7(6H)-one, 2-amino-3-phenyl- (9CI) (CA INDEX NAME)

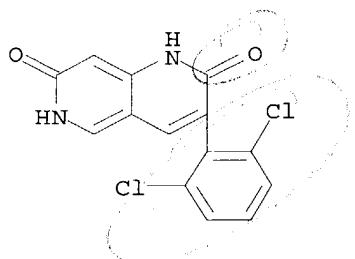


RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:139846 CAPLUS
 DN 130:196643
 TI Preparation of naphthyridinones as protein tyrosine kinase and cyclin
 dependant kinase inhibitors
 IN Barvian, Mark Robert; Denny, William Alexander; Dobrusin, Ellen Myra;
 Hamby, James Marino; Showalter, Howard Daniel Hollis; Thompson, Andrew
 Mark; Winters, Roy Thomas; Wu, Zhipei
 PA Warner-Lambert Company, USA
 SO PCT Int. Appl., 133 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9909030	A1	19990225	WO 1998-US16848	19980813
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9888289	A1	19990308	AU 1998-88289	19980813
	AU 742999	B2	20020117		
	EP 1003745	A1	20000531	EP 1998-939941	19980813
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9811956	A	20000815	BR 1998-11956	19980813
	JP 2001515078	T2	20010918	JP 2000-509710	19980813
	NZ 502704	A	20020628	NZ 1998-502704	19980813
	ZA 9807491	A	19990421	ZA 1998-7491	19980819
	MX 9911792	A	20000630	MX 1999-11792	19991215
	US 6150359	A	20001121	US 2000-463553	20000126
PRAI	US 1997-56746P	P	19970820		
	WO 1998-US16848	W	19980813		
OS	MARPAT	130:196643			
AB	Title compds. [I; R1 = halo or (un)substituted amino; R2 = (bi)(cyclo)alkyl; R5 = H, halo, (hetero)aryl, etc.; dashed line = optional bond] were prepared. Thus, 4,6-diamino-3-pyridinecarboxaldehyde (preparation given) was cyclocondensed with 2,6-C12C6H3CH2CN and the major product treated with NaNO2/HBF4 to give, after N-methylation, major product I (R2 = Me, R5 = C6H3C12-2,6) (II; R1 = F) which was aminated to give II (R1 = e.g., NHMe). Data for biol. activity of I were given.				
IT	220822-19-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of naphthyridinones as protein tyrosine kinase and cyclin dependant kinase inhibitors)				
RN	220822-19-5 CAPLUS				
CN	1,6-Naphthyridine-2,7(1H,6H)-dione, 3-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)				

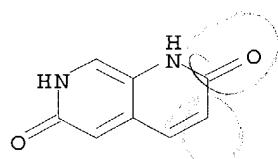
10/634,180 (Group II)



RE.CNT 1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1971:76356 CAPLUS
 DN 74:76356
 TI Synthesis of substituted 1,5- and 1,7-naphthyridines and related lactams
 AU Rapoport, Henry; Fryzman, Benjamin; Los, Mario
 CS Univ. California, Berkeley, CA, USA
 SO Journal of Organic Chemistry (1971), 36(3), 450-4
 CODEN: JOCEAH; ISSN: 0022-3263
 DT Journal
 LA English
 OS CASREACT 74:76356
 AB Reductive cyclization of Et 2-methoxy-5-nitro-4-pyridinepyruvate and of Et 6-methoxy-3-nitro-2-pyridinepyruvate afforded the corresponding 1,2,3,4-tetrahydro-3-oxy-6-methoxy-1,7-naphthyridin-2-one and 1,2,3,4-tetrahydro-3-oxy-6-methoxy-1,5-naphthyridin-2-one. Treatment of the latter with p-toluenesulfonyl chloride in pyridine afforded 6-methoxy-1,7-naphthyridin-2(1H)-one and 6-methoxy-1,5-naphthyridin-2(1H)-one, which by treatment with POCl_3 were transformed into 2-chloro-6-methoxy-1,7-naphthyridine, 2-chloro-6-methoxy-1,5-naphthyridine, and 2,6-dichloro-1,5-naphthyridine. The 2-chloronaphthyridines were transformed into 2-hydrazinonaphthyridines and reduced with Cu^{2+} to the parent naphthyridines. 2-Chloro-1,5-naphthyridine afforded 2-methoxy-1,5-naphthyridine by mild treatment with NaOMe . Hydrogenation of 6-methoxy-1,7-naphthyridin-2(1H)-one afforded 1,2,3,4-tetrahydro-6-methoxy-1,7-naphthyridin-2-one. Treatment of 6-methoxy-1,7-naphthyridin-2(1H)-one and its 1,5 analog with HBr afforded the 1,2,6,7-tetrahydro-1,7-naphthyridine-2,6-dione and 1,2,6,7-tetrahydro-1,5-naphthyridine-2,6-dione, which were reduced to the cis-decahydro-1,7- and -1,5-naphthyridine-2,6-diones. The bicyclic lactams could not be hydrolyzed to the amino acids, which were prepared by acid hydrolysis of meso- and rac-2,2'-bi(pyrrolidine)-5,5'-dione. When the di-Et meso- and rac-4,5-diaminosuberate dihydrochlorides were equilibrated at pH 7.5, they cyclized to the six-membered bicyclic lactams, trans- and cis-decahydro-1,5-naphthyridine-2,6-dione, resp.
 IT 27017-62-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 27017-62-5 CAPLUS
 CN 1,7-Naphthyridine-2,6-dione, 1,7-dihydro- (8CI) (CA INDEX NAME)



10/634,180 (Group II)

=> => d his

(FILE 'HOME' ENTERED AT 13:12:32 ON 19 MAR 2004)

FILE 'REGISTRY' ENTERED AT 13:12:36 ON 19 MAR 2004

L1 SCREEN 1839
L2 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2
L5 0 S L4 SSS SAM
L6 0 S L4 SSS FUL
L7 SCREEN 1839
L8 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L9 STRUCTURE UPLOADED
L10 QUE L9 AND L7 NOT L8
L11 0 S L10 SSS SAM
L12 SCREEN 1839
L13 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L14 STRUCTURE UPLOADED
L15 QUE L14 AND L12 NOT L13
L16 0 S L15 SSS SAM
L17 7 S L15 SSS FUL

FILE 'CAPLUS' ENTERED AT 13:18:10 ON 19 MAR 2004

L18 4 S L17

FILE 'CAOLD' ENTERED AT 13:18:34 ON 19 MAR 2004

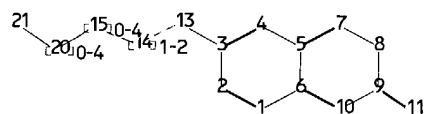
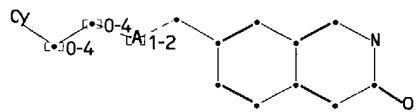
=> s l17
L19 0 L17

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	333.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.77

STN INTERNATIONAL LOGOFF AT 13:18:48 ON 19 MAR 2004

C:\Program Files\Common Files\System\Mapi\1033\NT



chain nodes :
11 13 14 15 20 21

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

3-13 9-11 13-14 14-15 15-20 20-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 14-15 20-21

exact bonds :

3-13 15-20

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
13:CLASS 14:CLASS 15:CLASS 20:CLASS 21:Atom

10/634,180 (examples)

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1839

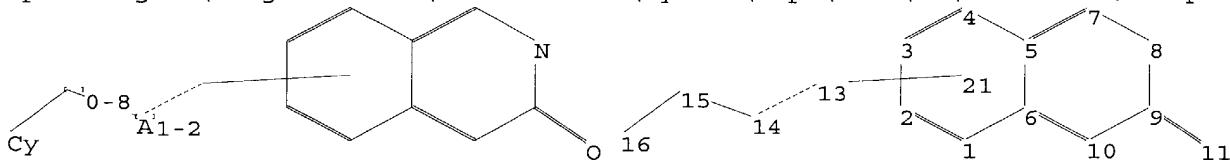
L1 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L2 SCREEN CREATED

=>

Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (examples).str



chain nodes :

11 13 14 15 16

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

9-11 13-14 14-15 15-16

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 14-15 15-16

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom 21:CLASS

L3 STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4 QUE L3 AND L1 NOT L2

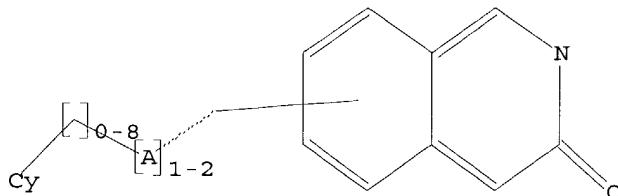
=> d 14

L4 HAS NO ANSWERS

L1 SCR 1839

L2 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L3 STR



Structure attributes must be viewed using STN Express query preparation.
L4 QUE L3 AND L1 NOT L2

=> s 14 sss sam
SAMPLE SEARCH INITIATED 11:01:58 FILE 'REGISTRY'

SEARCH INTERRUPTED

L5 QUERY CREATED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s 14 sss sam
SAMPLE SEARCH INITIATED 11:02:12 FILE 'REGISTRY'

SEARCH INTERRUPTED

L6 QUERY CREATED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s 14 sss sam
SAMPLE SEARCH INITIATED 11:02:43 FILE 'REGISTRY'

SEARCH INTERRUPTED

L7 QUERY CREATED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L8 SCREEN CREATED

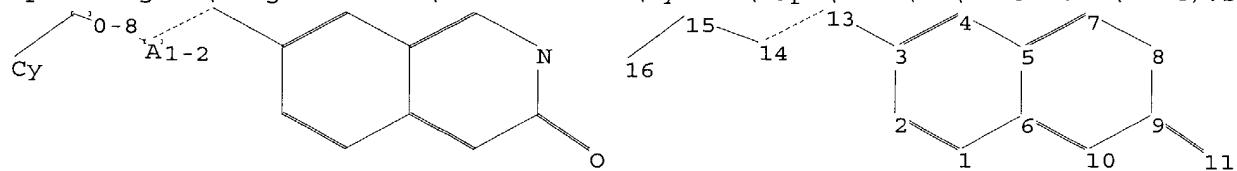
=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L9 SCREEN CREATED

=>

10/634,180 (examples)

Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (ex 2).str



chain nodes :

11 13 14 15 16
ring nodes :

Ring nodes:

chain bonds:

chain bonds :

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 14-15 15-16

exact bonds :

3-13

isolated ring systems :

isolated ring containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom

L10 STRUCTURE UPLOADED

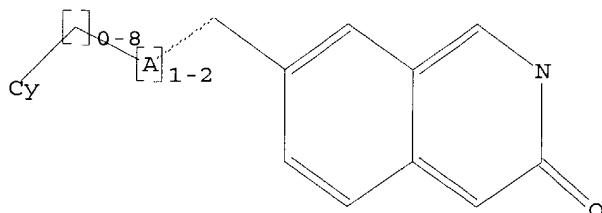
=> que L10 AND L8 NOT L9

L11 QUE L10 AND L8 NOT L9

=> d 111

L11 HAS NO ANSWERS

L8 SCR 1839



Structure attributes must be viewed using STN Express query preparation.
L11 QUE L10 AND L8 NOT L9

=> s 111 sss sam

10/634, 180 (examples)

SAMPLE SEARCH INITIATED 11:04:00 FILE 'REGISTRY'

SEARCH INTERRUPTED

L12 QUERY CREATED

If this message appears repeatedly, please notify the Help Desk. Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1839

L13 SCREEN CREATED

=> screen 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047

L14 SCREEN CREATED

=> Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (ex 3).str

Cy

0-4 0-4 A1-2

21 20 15 14 13 4 7 8

3 5 6 10 11

2 1 6 9

O

```
chain nodes :
```

ring nodes :

1 2 3 4

chain bonds :

chain bonds:

5-15 5-11
ring bonds :

Linking bonds :

exact/norm_bonds

exact/norm bonds :

1-2 1-6 2-3 3-4
one at a time

exact bonds :

3-13 15-20

isolated ring

Matlab [local]

Match level : 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 20:CLASS 21:Atom

1.15 STRUCTURE_UPLOADED

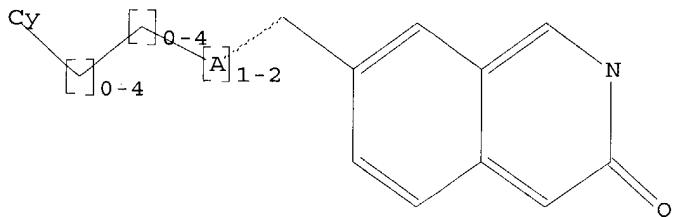
⇒ give L15 AND L13 NOT L14

10/634,180 (examples)

L16 QUE L15 AND L13 NOT L14

=> d 116
L16 HAS NO ANSWERS

L13 SCR 1839
L14 SCR 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L15 STR



Structure attributes must be viewed using STN Express query preparation.
L16 QUE L15 AND L13 NOT L14

=> s 115 sss sam
SAMPLE SEARCH INITIATED 11:05:42 FILE 'REGISTRY'
SCREENING
SAMPLE SCREEN SEARCH COMPLETED - 5432 TO ITERATE

18.4% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.24

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 104222 TO 113058
PROJECTED ANSWERS: 0 TO 0

L17 0 SEA SSS SAM L15

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1839

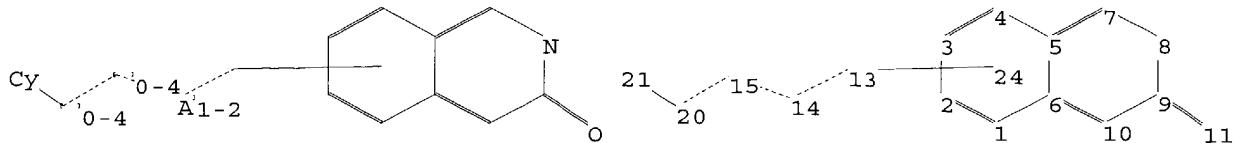
L18 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L19 SCREEN CREATED

=>
Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (ex 4).str

10/634,180 (examples)



chain nodes :

11 13 14 15 20 21

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

9-11 13-14 14-15 15-20 20-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 14-15 15-20

20-21

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 20:CLASS 21:Atom 24:CLASS

L20 STRUCTURE UPLOADED

=> que L20 AND L18 NOT L19

L21 QUE L20 AND L18 NOT L19

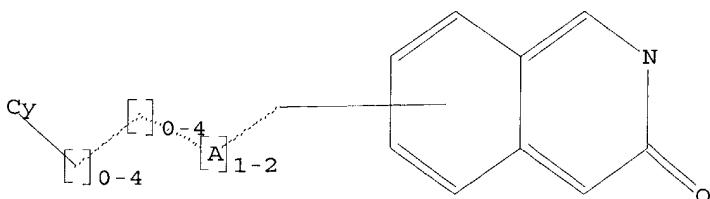
=> d l21

L21 HAS NO ANSWERS

L18 SCR 1839

L19 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L20 STR



Structure attributes must be viewed using STN Express query preparation.

L21 QUE L20 AND L18 NOT L19

=> s l21 sss sam

SAMPLE SEARCH INITIATED 11:08:17 FILE 'REGISTRY'

10/634,180 (examples)

SEARCH INTERRUPTED

L22 QUERY CREATED

If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s 117 sss ful
FULL SEARCH INITIATED 11:08:32 FILE 'REGISTRY'

SEARCH INTERRUPTED

L23 QUERY CREATED

If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> d his

(FILE 'HOME' ENTERED AT 11:01:21 ON 19 MAR 2004)

FILE 'REGISTRY' ENTERED AT 11:01:26 ON 19 MAR 2004

L1 SCREEN 1839
L2 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2
L5 QUE L3 AND L1 NOT L2
L6 QUE L3 AND L1 NOT L2
L7 QUE L3 AND L1 NOT L2
L8 SCREEN 1839
L9 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L10 STRUCTURE UPLOADED
L11 QUE L10 AND L8 NOT L9
L12 QUE L10 AND L8 NOT L9
L13 SCREEN 1839
L14 SCREEN 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L15 STRUCTURE UPLOADED
L16 QUE L15 AND L13 NOT L14
L17 0 S L15 SSS SAM
L18 SCREEN 1839
L19 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L20 STRUCTURE UPLOADED
L21 QUE L20 AND L18 NOT L19
L22 QUE L20 AND L18 NOT L19
L23 QUE L15

=> s 115 sss ful
FULL SEARCH INITIATED 11:09:01 FILE 'REGISTRY'

SEARCH INTERRUPTED

L24 QUERY CREATED

If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

10/634,180 (examples)

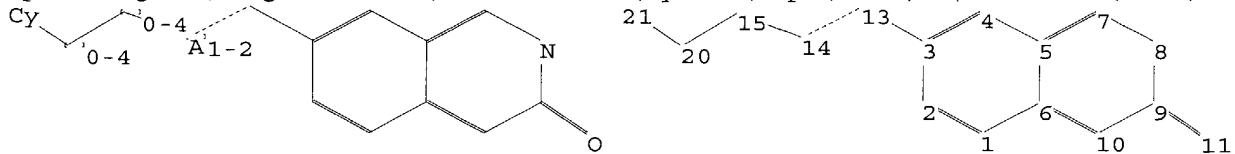
=> screen 1839

L25 SCREEN CREATED

=> screen 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047

L26 SCREEN CREATED

=>
Uploading C:\Program Files\Common Files\System\Mapi\1033\NT\10634180 (ex 3).str



chain nodes :

11 13 14 15 20 21

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

3-13 9-11 13-14 14-15 15-20 20-21

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-11 13-14 14-15 20-21

exact bonds :

3-13 15-20

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:CLASS 13:CLASS 14:CLASS 15:CLASS 20:CLASS 21:Atom

L27 STRUCTURE UPLOADED

=> que L27 AND L25 NOT L26

L28 QUE L27 AND L25 NOT L26

=> d 128

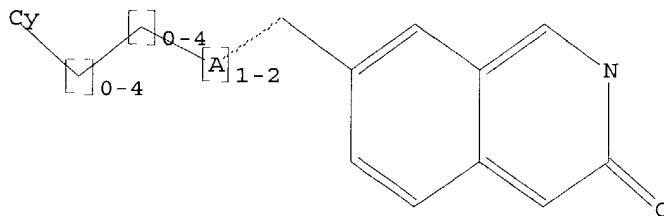
L28 HAS NO ANSWERS

L25 SCR 1839

L26 SCR 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047

L27 STR

10/634,180 (examples)



Structure attributes must be viewed using STN Express query preparation.
L28 QUE L27 AND L25 NOT L26

=> s 128 sss sam
SAMPLE SEARCH INITIATED 11:09:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5049 TO ITERATE

19.8% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.05

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTION ANSWERS: 0 TO 0
PROJECTED ITERATIONS: 96720 TO 105240

L29 0 SEA SSS SAM L27 AND L25 NOT L26

=> s 128 sss ful
FULL SEARCH INITIATED 11:10:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 99120 TO ITERATE

100.0% PROCESSED 99120 ITERATIONS 18 ANSWERS
SEARCH TIME: 00:00:04

L30 18 SEA SSS FUL L27 AND L25 NOT L26

=> => s 130
L31 1 L30

```
 => d.bib,ab,hiestr
```

L31 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:142961 CAPLUS
 DN 140:199211
 TI 3-Isoquinolinone derivatives as matrix metalloproteinase inhibitors, particularly for MMP-13, and their preparation and use as antiarthritics
 IN Bunker, Amy Mae; Sliskovic, Drago Robert
 PA Warner-Lambert Company Llc, USA
 SO PCT Int. Appl., 127 pp.
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004014378	A1	20040219	WO 2003-IB3508	20030803
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	US 2004038959	A1	20040226	US 2003-634180	20030805

PRAI US 2002-403062P P 20020813

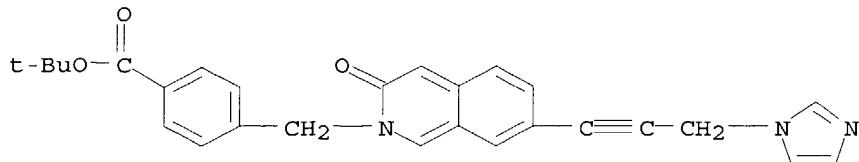
AB The invention provides compds. I or pharmaceutically acceptable salts thereof [wherein: R1 = (un)substituted (bi/hetero)cycloalkylalkenyl, phenylalkenyl, naphthylalkenyl, Ph, naphthyl, hetero(bi)arylalkenyl, hetero(bi)aryl; Q = OC(O), C.tplbond.C, (un)substituted CH2C(O), OC(:NH), NHC(O), NHC(:S), SC(O), CH:CH, CH2C.tplbond.C, 2-oxopyrrolidine-1,n-diyl, etc.; R2 = H, alkyl, phenylalkenyl, naphthylalkenyl, hetero(bi)arylalkenyl, phenyl(oxy/thio/sulfinyl/sulfonyl)alkenyl; R3 = H, OH, alkoxy, (di)(alkyl)amino, (un)substituted alk(en/yn)yl, (hetero)cycloalkyl(alkenyl), phenyl(alkenyl), naphthyl(alkenyl); R4 = H, alkyl, NH2, OH, or halo; n = 0-3; W, X, Y = (independently) N or CR4]. I are selective MMP-13 inhibitors (no data), useful particularly for treatment of osteoarthritis and rheumatoid arthritis. The invention also provides pharmaceutical compns. comprising I, and the use of I as medicaments for treating diseases mediated by an MMP-13 enzyme. Claims include 18 specifically named compds., all 2H-isoquinolin-3-one derivs. Examples include 1 example with phys. data and 18 without data; the latter include prophetic examples of aza-, diaza-, and triaza-modified isoquinolinones. Formulation examples are also provided; several of these include co-formulations with COX-2 inhibitors, including valdecoxib or celecoxib. For instance, N-alkylation of 7-bromo-3-hydroxyisoquinoline by 4-(bromomethyl)benzoic acid tert-Bu ester, followed by CuI/Pd(PPh3)4-catalyzed alkynylation with PhCH2C.tplbond.CH, gave title compound II.

IT 662139-31-3P, 4-[[7-[3-(Imidazol-1-yl)prop-1-ynyl]-3-oxo-2H-isoquinolin-2-yl]methyl]benzoic acid tert-butyl ester
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of isoquinolinone derivs. as selective MMP-13 inhibitors for use as antiarthritics)

RN 662139-31-3 CAPLUS

CN Benzoic acid, 4-[[7-[3-(1H-imidazol-1-yl)-1-propynyl]-3-oxo-2(3H)-

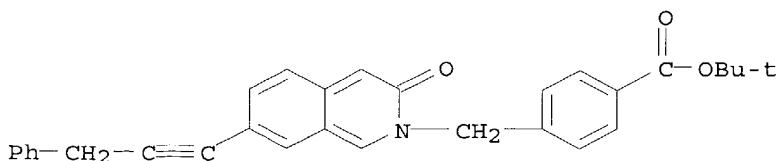
isoquinolinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT **662139-27-7P**, 4-[[3-Oxo-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-2-yl]methyl]benzoic acid tert-butyl ester **662139-28-8P**, 4-[[3-Oxo-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-2-yl]methyl]benzoic acid **662139-29-9P**, 7-(3-Phenylprop-1-ynyl)-2-(4-trifluoromethylbenzyl)-2H-isoquinolin-3-one **662139-30-2P**, 2-(3,5-Difluoro-4-hydroxybenzyl)-7-[3-(4H-[1,2,3]triazol-4-yl)prop-1-ynyl]-2H-isoquinolin-3-one **662139-32-4P**, 4-[[7-[3-(Imidazol-1-yl)prop-1-ynyl]-3-oxo-2H-isoquinolin-2-yl]methyl]benzoic acid **662139-33-5P**, 2-(3-Fluorobenzyl)-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-3-one **662139-34-6P**, 3-[[3-Oxo-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-2-yl]methyl]benzonitrile **662139-35-7P**, 4-[[3-Oxo-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-2-yl]methyl]benzenesulfonamide **662139-36-8P**, 4-[[3-Oxo-7-[3-([1,2,3]triazol-1-yl)prop-1-ynyl]-2H-isoquinolin-2-yl]methyl]benzoic acid tert-butyl ester **662139-37-9P**, 4-[[3-Oxo-7-[3-([1,2,3]triazol-1-yl)prop-1-ynyl]-2H-isoquinolin-2-yl]methyl]benzoic acid **662139-38-0P**, 4-[[3-Oxo-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-2-yl]methyl]benzoic acid methyl ester **662139-39-1P**, 3-[[3-Oxo-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-2-yl]methyl]benzoic acid methyl ester **662139-40-4P**, 2-(4-Fluorobenzyl)-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-3-one **662139-41-5P**, 7-(3-Phenylprop-1-ynyl)-2-(3-trifluoromethylbenzyl)-2H-isoquinolin-3-one **662139-42-6P**, 2-(3-Chlorobenzyl)-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-3-one **662139-43-7P**, 2-(3,4-Difluorobenzyl)-7-(3-phenylprop-1-ynyl)-2H-isoquinolin-3-one **662139-44-8P**, 4-[[3-Oxo-7-[3-([1,2,4]triazol-1-yl)prop-1-ynyl]-2H-isoquinolin-2-yl]methyl]benzoic acid tert-butyl ester
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of isoquinolinone derivs. as selective MMP-13 inhibitors for use as antiarthritics)

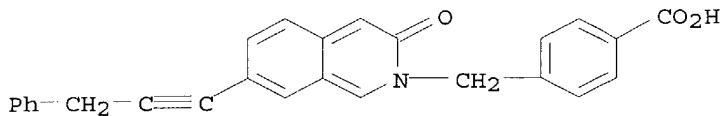
RN 662139-27-7 CAPLUS

CN Benzoic acid, 4-[[3-oxo-7-(3-phenyl-1-propynyl)-2(3H)-isoquinolinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

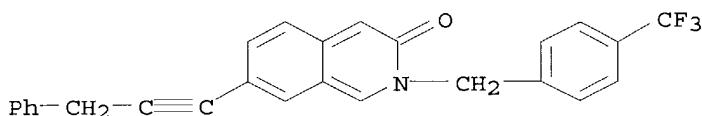


RN 662139-28-8 CAPLUS

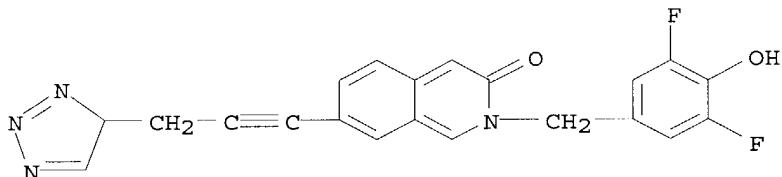
CN Benzoic acid, 4-[[3-oxo-7-(3-phenyl-1-propynyl)-2(3H)-isoquinolinyl]methyl]-, (9CI) (CA INDEX NAME)



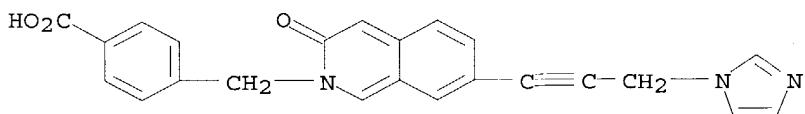
RN 662139-29-9 CAPLUS
CN 3(2H)-Isoquinolinone, 7-(3-phenyl-1-propynyl)-2-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



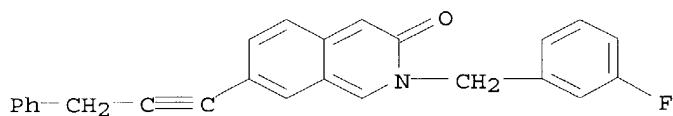
RN 662139-30-2 CAPLUS
CN 3(2H)-Isoquinolinone, 2-[(3,5-difluoro-4-hydroxyphenyl)methyl]-7-[(3-(4H-1,2,3-triazol-4-yl)-1-propynyl)- (9CI) (CA INDEX NAME)



RN 662139-32-4 CAPLUS
CN Benzoic acid, 4-[[7-[(3-(1H-imidazol-1-yl)-1-propynyl)-3-oxo-2(3H)-isoquinolinyl]methyl]- (9CI) (CA INDEX NAME)



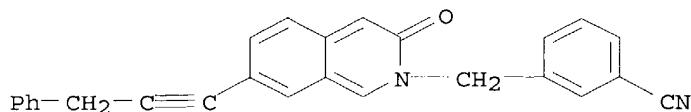
RN 662139-33-5 CAPLUS
CN 3(2H)-Isoquinolinone, 2-[(3-fluorophenyl)methyl]-7-(3-phenyl-1-propynyl)- (9CI) (CA INDEX NAME)



RN 662139-34-6 CAPLUS

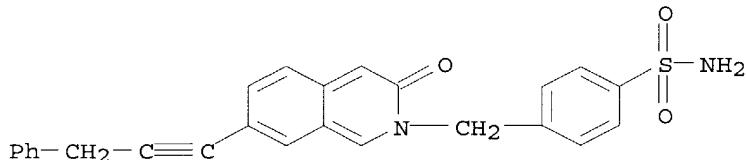
10/634,180 (examples)

CN Benzonitrile, 3-[[3-oxo-7-(3-phenyl-1-propynyl)-2(3H)-isoquinolinyl]methyl]- (9CI) (CA INDEX NAME)



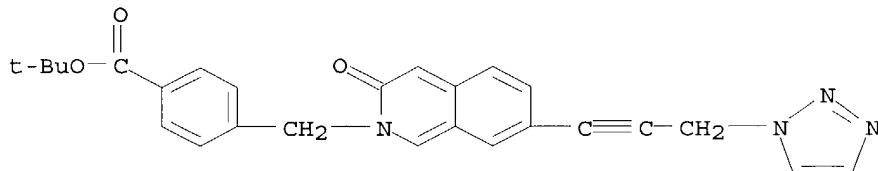
RN 662139-35-7 CAPLUS

CN Benzenesulfonamide, 4-[[3-oxo-7-(3-phenyl-1-propynyl)-2(3H)-isoquinolinyl]methyl]- (9CI) (CA INDEX NAME)



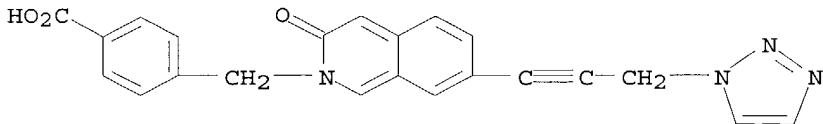
RN 662139-36-8 CAPLUS

CN Benzoic acid, 4-[[3-oxo-7-[3-(1H-1,2,3-triazol-1-yl)-1-propynyl]-2(3H)-isoquinolinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



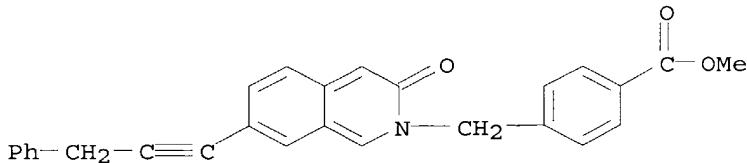
RN 662139-37-9 CAPLUS

CN Benzoic acid, 4-[[3-oxo-7-[3-(1H-1,2,3-triazol-1-yl)-1-propynyl]-2(3H)-isoquinolinyl]methyl]- (9CI) (CA INDEX NAME)

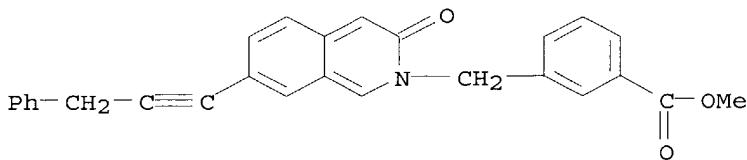


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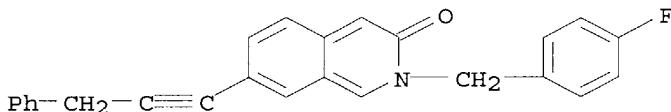
CN Benzoic acid, 4-[[3-oxo-7-(3-phenyl-1-propynyl)-2(3H)-isoquinolinyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



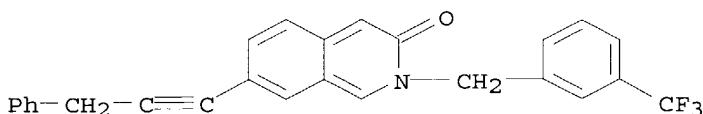
RN 662139-39-1 CAPLUS
CN Benzoic acid, 3-[[3-oxo-7-(3-phenyl-1-propynyl)-2(3H)-isoquinolinyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



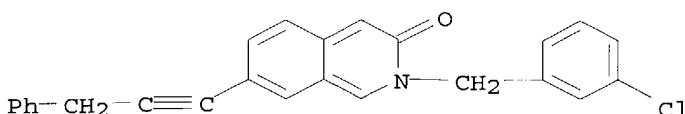
RN 662139-40-4 CAPLUS
CN 3(2H)-Isoquinolinone, 2-[(4-fluorophenyl)methyl]-7-(3-phenyl-1-propynyl)- (9CI) (CA INDEX NAME)



RN 662139-41-5 CAPLUS
CN 3(2H)-Isoquinolinone, 7-(3-phenyl-1-propynyl)-2-[[3-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



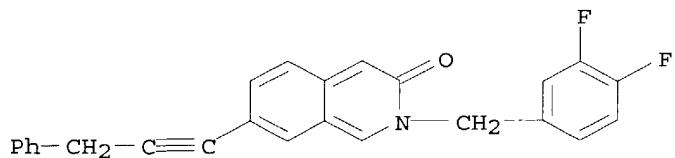
RN 662139-42-6 CAPLUS
CN 3(2H)-Isoquinolinone, 2-[(3-chlorophenyl)methyl]-7-(3-phenyl-1-propynyl)- (9CI) (CA INDEX NAME)



RN 662139-43-7 CAPLUS

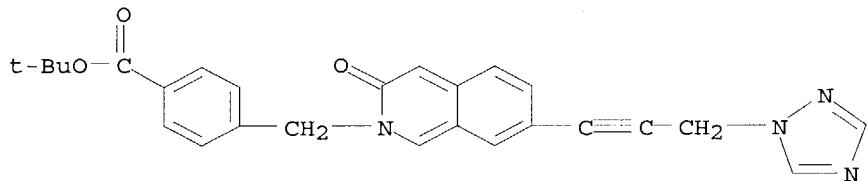
10/634,180 (examples)

CN 3 (2H) -Isoquinolinone, 2-[(3,4-difluorophenyl)methyl]-7-(3-phenyl-1-propynyl)- (9CI) (CA INDEX NAME)



RN 662139-44-8 CAPLUS

CN Benzoic acid, 4-[[3-oxo-7-[3-(1H-1,2,4-triazol-1-yl)-1-propynyl]-2(3H)-isoquinolinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

WC 99/64400
EP 1069110
US 2002 086290

10/634,180 (examples)

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L2 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2
L5 QUE L3 AND L1 NOT L2
L6 QUE L3 AND L1 NOT L2
L7 QUE L3 AND L1 NOT L2
L8 SCREEN 1839
L9 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L10 STRUCTURE UPLOADED
L11 QUE L10 AND L8 NOT L9
L12 QUE L10 AND L8 NOT L9
L13 SCREEN 1839
L14 SCREEN 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L15 STRUCTURE UPLOADED
L16 QUE L15 AND L13 NOT L14
L17 0 S L15 SSS SAM
L18 SCREEN 1839
L19 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L20 STRUCTURE UPLOADED
L21 QUE L20 AND L18 NOT L19
L22 QUE L20 AND L18 NOT L19
L23 QUE L15
L24 QUE L15
L25 SCREEN 1839
L26 SCREEN 2026 OR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L27 STRUCTURE UPLOADED
L28 QUE L27 AND L25 NOT L26
L29 0 S L28 SSS SAM
L30 18 S L28 SSS FUL

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CA SUBSCRIBER PRICE	0.00	-0.69

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